

## **Nu-Metrics Traffic Analyzer Study**

### **Computer Generated Summary Report City: City of Fairfax**

**Street: Sager Ave. #3 Red**

A study of vehicle traffic was conducted with HI-STAR unit number 1038. The study was done in the West Bound lane on Sager Ave. using counter #3 Red as shown on attached drawing. The counter was placed between Addison Rd. & John Trammell Ct. The study began on 01/06/2004 at 12:00 PM and concluded on 01/09/2004 at 12:00 PM, lasting a total of 72 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 9,422 vehicles passed through the location with a peak volume of 370 on 01/08/2004 at 08:00 AM and a minimum volume of 1 on 01/07/2004 at 01:00 AM. The AADT Count for this study was 3,141.

#### **SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

<b>Chart 1</b>							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	19	55	499	2568	4126	1702	388

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 32 mph with 93.8 percent exceeding the posted speed of 25 mph. The HI-STAR found 22.3 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 37.02 mph.

#### **CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

<b>Chart 2</b>							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
9077	148	98	29	5	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 9,225 which represents 98.60 percent of the total classified vehicles. The number of Small Trucks in the study was 98 which represents 1.00 percent of the total classified vehicles. The number of Trucks/Buses in the study was 29 which represents 0.30 percent of the total classified vehicles. The number of Tractor Trailers in the study was 5 which represents 0.10 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 01/08/2004 at 08:00 AM the average headway between the vehicles

was 9.7 seconds. The slowest traffic period was on 01/07/2004 at 01:00 AM. During this slowest period, the average headway was 1800.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 27 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.